

	25X1A
Not of	_

IN: 13613

TOA: 14/1550Z MAR 65 PUF

S E C R E I 141334Z

PRIORITY | INFO

CITE

25X1A

IDEALIST MAINT-LOGS

GUBL: AIRFRAME INTEGRITY INSP FINAL REPORT ART 384

THE FOLLOWING IS FINAL REPORT OF ALL DISCREPANCIES FOUND BY LAU TEAM. IT IS FELT THAT NONE OF THE DISCREPANCIES (WITH THE EXCEPTION OF PARA 3 BELOW) WERE OF MAJOR CONSEQUENCE.

A L AND R WING LOWER SURFACE FROM ROOT RIS DUTBOARD APPROX 24 INCHES - SCRATCHES VARYING FROM I/S INCH TO 12 INCHES LONG AND UP TO APPROX .010 DEEP IN RANDOM DIRECTIONS WERE FOUND ON BOTH WINGS. APPROX 25 SCRATCHES ON LEFT WING AND 23 ON RIGHT WING. THESE WERE WORKED WITH 400 PAPER AND CLEANED UP ACCEPTABLY.

- APPROX .315 DEEP, CAUSED BY RUBBING OF UP-SET RIVET HEADS INSIDE.

  THE LEADING EDGE FILLET, WERE FOUND ON EACH WING. THE CHAFE

  MARKS WERE WORKED THE MINIMUM REQUIRED TO INSURE AGAINST SHARP GROOVES

  THAT WOULD CAUSE STRESS CONCENTRATIONS. THE UP-SET RIVET HEADS IN THE

  LEADING EDGE FILLET WERE WORKED DOWN SLIGHTLY TO PREVENT FUTURE

  CHAFING.
- C. L AND R WING LOWER SURFACE AT W.S. 60 AND W.S. 190 ACCESS PLATES - CRACKED FAINT AT THE RIVET HEADS LOCATED AT THE INBOARD

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CRET

IN: 18613 CITE:

AND OUTBOARD ENDS OF EACH OF THE FOUR ACCESS PLATE CUT-OUTS INDICATES "RIVET WORKING". DYE CHECK AND X-RAY OF THE FOUR AREAS REVEALS NO ABNORMAL CONDITIONS. RIVETS ARE NOT TIPPED OR CUPPED.

- D. L AND R WING LOVER SURFACE AT 15 PER CENT CORD, (SPANWISE SPLICE), FROM THE SLIPPER TANK OUTBOARD APPROX 3 FEET CRACKED PAINT AND SEEPING FUEL AT RIVET HEADS. RIVETS ARE TIGHT AND SHOW NO XPIDENCE OF TIPPING OR CUPPING.
- E. FUSELAGE SKIN TO MAIN FRAME RIVETS EVIDENCE OF RIVETS WORKING PARTICULARLY IN THE AREA BELOW THE WING. RIVETS ARE NOT TIPPED.

  ONLY VERY SLIGHT CUPPING IS EXHIBITED BY A FEW RIVETS.
- F. FUSELAGE MAIN FRAME SEGMENTS BETWEEN LOWER LONGERONS AND THE LOWER LONGERONS MINOR NICKS, SCRATCHES AND GOUGES WERE FOUND AND CLEANED UP.
- G. AFT ENGINE MOUNT SUPPORT RING THE AFT MOUNT SUPPORT RING SEGMENT BETWEEN THE UPPER LONGERONS EXHIBITED REDUCED PROPERTIES DUE TO AN OVERTEMP CONDITION. THE REDUCTION IN PROPERTIES WAS GREATEST AT THE ENGINE MOUNT ATTACH POINT AND DIMINISHED SOMEWHAT NEAR THE UPPER LONGERONS. THE RING SEGMENT WILL BE REPLACED AND THE DAMAGED SEGMENT RETURNED TO THE FACTORY FOR FURTHER ANALYSIS.
- H. UPPER FWO CORNER OF THE RIGHT HAND SPEED BRAKE WELL THE STRUCTURE ON THIS CORNER OF THE SPEED BRAKE WELL EXHIBITS REDUCED PROPERTIES DUE TO AN OVERTEMP CONDITION. BARCOL AND EDDY CURRENT TESTS REVEAL PROPERTIES NEAR THE MINIMUM FOR THE MATERIAL. THIS STRUCTURE IS NOT CRITICALLY STRESSED AND IS CONSIDERED SATISFACTORY.
- THE OF APPROVED FOR Release 2002/06/18: CIA-RDP74B00447R000100010071-3
  IN: 10613 (PASE 2 OF 2) SEC RET

Approved For Release 2002/06/18 : CIA-RDP74B004/18R000100010071-3 25X1A	,
SECRET	
IN: 13514  TOR: 14/1855Z MAR S6 PJF	
SECRET 132258Z  25X1A  IMMEDIATE INFO  CITE  25X1A IDEALIST MAINI-LOGS	25X1
SUBJ: ARTICLE 384 INSPECTION  25X1A REF: (NOT RECEIVED)	
REPLACE UPPER AFT ENGINE SUPPORT RING SEGMENT. DIVE BREAK AREA  SEXTA IS NOT CONSIDERED CRITICAL AND NO ACTION IS TO BE TAKEN.  WILL AIRSHIP ON 14 MARCH 66 NECESSARY PARTS, HUCK BOLTS,	
DO-6 RIVETS AND TOOLING REQUIRED TO ACCOMPLISH JOB. THIS RING  GEGEMENT WAS PREVIOUSLY CHANGED AT	25X1
THE DECISION TO REPLACE RING SEGEMENT INVOLVES CONSIDERATION OF TIME INVOLVED IN RE-WORK AGAINST THE RISK OF CONTINUING USE OF A STRUCTURAL PART WITH APPARENT STRENGTH REDUCTION DUE TO	
HEATING EFFECTS. PARTS REMOVED SHOULD BE RETURNED  FOR MORE DETAILED AND ACCURATE STRUCTURAL ANALYSIS.  WOULD LIKE TO BE CERTAIN THAT SPECIAL HEAT SHIELD AROUND AFT	25X1
ENGINE MOUNTING IS INSTALLED AND ALSO UPPER ACCESS PLATE ON FUSELAGE IS A SOLID PLATE, NOT REPEAT NOT LOVERED.  YOU WILL BE ADVISED SHIPPING INFORMATION ASAP.  IN: 124dproved For Release 2002/06/78 P.C.FA-RDP74B00447R000100010071-3	

IN: 12515

At. 75. 10

TOR: 14/1657 Z MAR 66 PJF

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PRIDRITY	INFO	CITE
<b>€</b> 25X1Å		

25X1/

NO NITE ACTION

IDEALIST MAINT-LOGS

SUBJ: ENGINE S18399 INSTL ART 384

AFTER FINDING THE AFT ENGINE SUPPORT TING SEGMENT OVER TEMPED, WE LOOKED INTO THE POSSIBILITY OF EXCESS ENGINE HEAT LEAK. THE FOLLOWING WAS FOUND.

- I. THE TOP FURWARD BLANKET OF THE TAIL PIPE WAS REPLACED DUE TO EXCESSIVE HEAT DAMAGE.
- THE EXHAUST TURBINE CASE HEAT SHIELD WAS FOUND

  TO BE CONTRACTED WITH DISTORTION AROUND ITS CINRCUMFERENCE

  AND RIDING TURBINE CASE STRUTTS. THE MISALIGNMENT AT

  THE TAIL PIPE ADAPTER MATING JOINT IS .15 INCH AT 12

  O'CLOCK, .50 INCH AT ONE O'CLOCK, .30 INCH AT 3 O'CLOCK

  .40 INCH AT 6 O'CLOCK, .34 INCH AT 7:38 O'CLOCK,

  .40 INCH AT 9 O'CLOCK AND .34 INCH AT THE 10

O'CLOCK POSITION. TOTAL TIME ON ENGINE, 663.7 HRS.

3. A REVIEW OF THE HISTORICAL RECORD ON THE ENGINE (DD829)
REVEALED THAT THIS ENGINE WAS WRITTEN UP AT 561.4 HRS FOR
THIS SAME DISCREPANCY, HOWEVER THE MAGNITUDE OF DISPLACEMENT

IN: 15Approved For Release 2002/66/18 CTA-RDP74B00447R000100010071-3

25X1A	Thie	1/4/15	· ለተቸው »	1
20/1/	TNS	10015	CITE:	

- was less by approximately .25 of an inch on the entire circumperence.
  - 4. DUE TO THE OVERTEMP OF THE ENGINE MOUNT SUPPORT, THE PAST HISTORY ON THE HEAT SHIELD AND THE APPARENT PROGRESSION OF DECREASE INHEAT SHIELD CIRCUMFERENCE, WE ARE CHANGINE THE ENGINE ON ART 364.
- 5. IN ADDITION, WE UNDERSTAND THAT THE COMPLETION OF

  5. IN ADDITION, WE UNDERSTAND THAT THE COMPLETION OF

  5/2 991 WILL AID IN COOLING IN THIS AREA. 5/8 KIT 991

  FOR ART 384 WAS INSTALLED ON ART 383. PLEASE SEND THIS

  5/3 SO AC TO ARRIVE AT NLE 19 MARCH.

  25X1A

END OF MSG

Approved For Release 2002/06/18 : CIA-RDP74B004 R000100010071-3	X1A
SECRET	
IN 12619 TOR 14/1727Z MAR 66 JAI	
25X1A  SECRET 131243Z 25X1A  IMMEDIATE INFO CITE	25X1
DEALIST MAINT-LOGS  SUBJ: ARTICLE 384 INSPECTION  25X1A  ATTN:  PAINT DISCOLORATION AND BARCOL READING INDICATE HIGH  TEMPERATURES EXPERIENCED AT AFT ENGINE MOUNT AND SPEED BRAKE	
WELLE.  BARCOL READINGS AS LOW AS 84 TAKEN ON REAR ENGINE MOUNT SUPPORT RING AND UPPER, FOREWARD CORNER OF R. H. SPEED BRAKE	

WELL.

PLEASE ADVISE HOW ABOVE READINGS COMPARE WITH DATA PREVIOUSLY TAKEN ON OTHER ARTICLES. ASAP.

END OF MSG

IN 125Approved For Release 2002/08/18 : CIA-RDP74B00447R000100010071-3

IN 10528

TOR 14/1712Z MAR 66 JAI

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CITE PRIORITY INFO

25X1

25X1Ā

IDEALIST MAINT-LOGS

SUBJ: AIRFRAME INTEGRETY INSP FINAL REPORT ART 383

(IN 10619) REF:

1. THE FOLLOWING IS A COMPREHENSIVE REPORT OF ALL DISCREPANCIES 25X1A

FOUND BY LAC TEAM AS A RESULT OF THE VISUAL, DYE PENATRANT,

- X-RAY AND HARDNESS TESTS PERFORMED ON SUSPECT AREAS. IT IS
  - FELT THAT NONE OF THESE DISCREPANCIES FOUND WERE OF MAJOR
- CONSEQUENCE.
  - A. L AND R WING LOWER SURFACE FROM ROOT RIB OUTSOARD
  - APPROX 24 INCHES. SCRATCHES VARYING FROM 1/8 INCH TO 9 INCHES
    - LONG AND UP TO . BIG DEEP IN RANDOM DIRECTIONS WERE FOUND ON
- BOTH WINGS. APPROX 20SCRATCHES ON LEFT WING AND 30 ON RIGHT.
  - THE SCRATCHES WERE WORKED WITH 400 PAPER AND CLEANED UP ACCEPTABLY.
    - d. L AND R WING LOWER SURFACE AT FILLET EDGE. A CORD
- WISE GROOVE FROM THE LEADING EDGE TO THE FLAP HING LINE
  - HAS BEEN WORN IN THE WING SKIN BY THE EDGE OF THE WING FILLET.
- THIS GROOVE AVERAGING . DIS WIDE AND VARYING FROM 0 TO APPROX . 207
- DEEP HAS BEEN SMOOTHED WITH 400 PAPER. THE CORNER OF THE
- FILLET EDGE HAS BEEN SMOOTHED AND ROUNDED TO MINIMIZE FUTURE

WEAR.

1N 1062Apph6ved PoFReRese 2002/06/78 FCA-RDF74B00447R000100010071-3

Approved For Release 2002/06/18: CIA-RDP74B00447R000100010071-3 SECRET 25X1A IN 13528 CITE C. L AND R WING LOWER SURFACE AT W.S. 60 AND W.S. 190 ACCESS PLATES. CRACKED PAINT AT THE RIVET HEADS LOCATED AT THE INDOARD AND OUTBOARD ENDS OF EACH OF THE FOUR ACCESS PLATE CUT-OUTS INDICATES "RIVET WORKING". DYE CHECK AND X-RAY OF THE FOUR ACCESS PLATE AREAS REVELS NO ABNORMAL CONDITIONS. RIVETS ARE NOT TIPPED OR CUPPED. D. L AND R WING LOWER SURFACE AT 15 PER CENT (SPAN WISE SKIN SPLICE) FROM W.S. 178 OUTSCARD APPROX 4 FEET. CRACKED PAINT AND SEEPING FUEL AT RIVET HEADS. PARTICULARLY AT ROW IN FRONT SKIN. RIVETS SHOW NO EVIDENCE OF TIPPING OR CUPPING. E. FUSELAGE SKIN TO MAIN FRAME RIVETS. EVIDENCE OF RIVETS WORKING ABOVE AND PARTICULARLY BELOW THE WING. RIVETS ARE NOT TIPPED WITH ONLY A VERY FEW SHOWING EVIDENCE OF SLIGHT CUPPING. F. FUJELAGE MAIN FRAME SEGMENTS BETWEEN L AND R LOWER LONGERONS. SCRATCHES AND GOUGES UP TO ABIS DEEP WERE FOUND ON EACH MAIN FRAME SEGMENT AT AN AVERAGE OF 3 PLACES PER SEGMENT. THESE SCRATCHES AND GOUGES HAVE ALL BEEN BLENDED AND SMOOTHED TO PREVENT STRESS CONCENTRATIONS. G. LOWER LONGERON AFT OF ENGINE ACCESS DOORS. SIX GOUSES, PRIMARILY ON THE EDGES OF THE LONGERON SECTION AND SPLICE GUSSETT WERE FOUND. THESE WERE ALL SMOOTHED AND BLENDED. 2. WE SHOULD COMPLETE LAC TEAM INSPECTION OF ART 384 TODAY. ONE MAJOR BUSPECT AREA, SEE REF. WILL PROVIDE COMPREHENSIVE REPORT UPON COMPLETION. END OF KSG IN 12620 Approved For Release 2002/06/18 CIA RDP74B00447R000100010071-3